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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of producing ultrafine drug particles having an

average particle size of 10 nm to 1000 nm, comprising the steps of 1) dissolving a drug in at least

one good solvent or a mixture of good solvents to prepare a drug-containing solution; 2) mixing

the drug-containing solution with a solvent being a poor solvent or a mixture of poor solvents for

the drug and being miscible with the drug-containing solution in the good solvent or a mixture of

good solvents; and 3) subjecting the prepared mixture directly to emulsification under a set

processing pressure using [[a]] a Microfluidizer or Nanomiser without carrying out any

pretreatment step for adjusting the drug to have an average particle size of 100 µm or less,

further comprising the steps of circulating the solvent being a poor solvent or a mixture

of poor solvents for the drug and being miscible with the drug-containing solution in the good

solvent or a mixture of good solvents through a channel in the Microfluidizer or Nanomiser and

adding the drug-containing solution to the circulating miscible solvent to thereby mix them,

whercin the Microfluidizer or Nanomiser is equipped with an online injector and the

Microfluidizer or Nanomiser comprises a reservoir, a booster pump and an emulsifier, being

connected via thin tubes, the injector being so configured as to feed a drug-containing solution

containing a drug dissolved in a good solvent or a mixture of good solvents, the injector being

integrated into the Microfluidizer or Nanomiser at any position of the channel for the circulating

fluid in the thin tubes extending from the reservoir to the emulsifier.

2. (Canceled)

3. (Previously Presented) The production method according to Claim 1, wherein the

drug is an insoluble drug having a solubility in water of 1 mg/ml or less.

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4. (Previously Presented) The production method according to Claim 1, further

comprising dissolving a dispersing agent in a solvent of at least one of 1) the drug-containing

solution in a good solvent or a mixture of good solvents and 2) the solvent being a poor solvent

or a mixture of poor solvents for the drug and being miscible with the drug-containing solution in

the good solvent or a mixture of good solvents.

5. (Previously Presented) The production method according to Claim 1, wherein a

concentration of the dispersing agent in the solvent in which the dispersing agent is dissolved is

0.01% to 50% (W/V).

6. (Previously Presented) The production method according to Claim 1, wherein the

dispersing agent is polyoxyethylene polyoxypropylene glycol, lecithin, gelatin and/or

polyvinylpyrrolidone.

7. (Previously Presented) The production method according to Claim 1, wherein, in the

step of mixing the drug-containing solution with a solvent being a poor solvent or a mixture of

poor solvents for the drug and being miscible with the drug-containing solution in the good

solvent or a mixture of good solvents, the amount of the drug-containing solution is 0.01% to

50% (V/V) to the amount of the solvent being a poor solvent or a mixture of poor solvents for

the drug and being miscible with the drug-containing solution.

8. (Previously Presented) The production method according to Claim 1, wherein the

average particle size is 100 nm to 400 nm.

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9. (Previously Presented) The production method according to Claim 1, wherein the

Microfluidizer is used.

10. (Previously Presented) The production method according to Claim 1, wherein the

Nanomiser is used.

11. (Previously Presented) The production method according to Claim 1, wherein the

drug is one of antitumor drugs, antibiotics, anti-inflammatory drugs, analgesics, drugs for

treating osteoporosis, hypolipidemic drugs, antibacterial drugs, sedative drugs, tranquilizers,

antiepileptic drugs, antidepressants, drugs for treating digestive system diseases, drugs for

treating allergic diseases, antihypertensive drugs, antiarteriosclerosis drugs, antidiabetic drugs,

hormone drugs and lipid soluble vitamin preparations.

12. (Canceled)

13. (Previously Presented) The production method according to Claim 1, wherein the

Microfluidizer is used at a set processing pressure of 1000 to 6000 psi.

14. (Previously Presented) The production method according to Claim 1, wherein the

Nanomiser is used at a set processing pressure of 6000 to 20000 psi.

15. (Previously Presented) A method of producing a suspension of ultrafine drug

particles or powdered ultrafine drug particles in an arbitrary concentration, the ultrafine drug

particles having an average particle size of 10 nm to 1000 nm, comprising the steps of 1)

dissolving a drug in a good solvent or a mixture of good solvents to prepare a drug-containing

solution; 2) mixing the drug-containing solution with a solvent being a poor solvent or a mixture

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of poor solvents for the drug and being miscible with the drug-containing solution in the good

solvent or a mixture of good solvents; 3) subjecting the prepared mixture directly to emulsification under a set processing pressure using a Microfluidizer or Nanomiser without

carrying out a pretreatment step for adjusting the drug to have an average particle size of 100 µm

or less; and 4) removing part or all of the solvent from the suspension of ultrafine drug particles

after the treatment with the Microfluidizer or Nanomiser,

further comprising the steps of circulating the solvent being a poor solvent or a mixture

of poor solvents for the drug and being miscible with the drug-containing solution in the good

solvent or a mixture of good solvents through a channel in the Microfluidizer or Nanomiser and

adding the drug-containing solution to the circulating miscible solvent to thereby mix them,

wherein said Microfluidizer or Nanomiser is equipped with an online injector and the

Microfluidizer or Nanomiser comprises a reservoir, a booster pump and an emulsifier, being

connected via thin tubes, the injector being so configured as to feed a drug-containing solution

containing a drug dissolved in a good solvent or a mixture of good solvents, the injector being

integrated into the Microfluidizer or Nanomiser at any position of the channel for the circulating

fluid in the thin tubes extending from the reservoir to the emulsifier.

16. (Canceled)

17. (Previously Presented) The production method according to Claim 15, wherein the

step of removing part or all of the solvent from the suspension of ultrafine drug particles after the

treatment with the high-pressure homogenizer is freeze-drying.

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18. (Withdrawn) A high-pressure homogenizer equipped with an online injector,

comprising a high-pressure homogenizer and an injector, the high-pressure homogenizer shown

in the following Fig. 1 comprising a reservoir, a booster pump and an emulsifier, being

connected via thin tubes, the injector being so configured as to feed a drug-containing solution

containing a drug dissolved in a good solvent or a mixture of good solvents, the injector being

integrated into the high-pressure homogenizer at any position of a channel for a circulating fluid

in the thin tubes extending from the reservoir to the emulsifier.

19. (Withdrawn) The high-pressure homogenizer equipped with an online injector

according to Claim 18, wherein the injector is integrated at any position of a channel in the thin

tube connecting between the reservoir and the booster pump as shown in the following Fig. 2.

20. (Withdrawn) The high-pressure homogenizer equipped with an online injector

according to Claim 18, wherein the injector is integrated at any position of a channel in the thin

tube connecting between the booster pump and the emulsifier as shown in the following Fig. 3.

21. (Withdrawn) The high-pressure homogenizer equipped with an online injector

according to Claim 18, wherein the injector is integrated at any position of a channel in the thin

tubes via a joint and/or a mixer.

22. (Withdrawn) The high-pressure homogenizer equipped with an online injector

according to Claim 18, further comprising a regulator for controlling the temperature of the

circulating fluid and/or the drug-containing solution, the regulator being integrated into part or

all of the emulsifier and/or the thin tubes.

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23. (Canceled)

24. (Currently Amended) A method of producing ultrafine drug particles having an

average particle size of 10 nm to 1000 nm, comprising the steps of

1) dissolving a drug in a good solvent or a mixture of good solvents to prepare a drug-

containing solution; 2) circulating a solvent in a channel for a circulating fluid in thin tubes of

[[a]] a Microfluidizer or Nanomiser equipped with an online injector, wherein the Microfluidizer

or Nanomiser comprises a reservoir, a booster pump and an emulsifier, being connected via the

thin tubes, the injector being so configured as to feed a drug-containing solution containing a

drug dissolved in a good solvent or a mixture of good solvents, the injector being integrated into

the Microfluidizer or Nanomiser at any position of the channel for the circulating fluid in the thin

tubes extending from the reservoir to the emulsifier, and the solvent being a poor solvent or a

mixture of poor solvents for the drug and being miscible with the drug-containing solution in the

good solvent or a mixture of good solvents; 3) feeding the drug-containing solution through the

online injector to thereby mix the drug-containing solution with the circulating miscible solvent;

and 4) directly emulsifying the resulting mixture online under a set processing pressure using the

Microfluidizer or Nanomiser.

25. (Canceled)